



#### Abstract of the Disclosure

A lithium secondary battery has high capacity and excellent current characteristics. The lithium battery comprises of a positive electrode, a negative electrode and an electrolyte; the negative electrode comprising  $\text{Al}_2\text{O}_3$  particles not relating to the charge-and discharge reactions of the battery. The presence of the ceramics particles in the electrode leads to a decrease in the internal resistance of the battery because of the enhancement of ion conductivity in the electrode, resulting in higher capacity at high rate discharge of the lithium secondary battery.

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